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Linn Parts List (Bill of Materials) for PCAS 003

Amplifier Board for LK2 (60) & LK275 Power Amps

Please note that this list is provided for guidance only. Linn Products cannot guarantee the accuracy of the information contained in the list and will not be held responsible for any errors that occur as a result of its use. Please double check that the details listed match the component that you are replacing.

How to follow a Bill of Materials (BOM)

The BOM may, at first glance seem quite confusing. Once a few things are explained however, you should have no problems following it.

The main part of this document, i.e. the table, is split into nine columns as shown in the example below:

Quantity	Units	T	C.Des	Part Number	Description	Type	Kit	Cost
-----	-----	-	-----	-----	-----	----	----	----
1.00000	ONES	R	C001	CAP 003	22UF,+50%,-20%,50V,ELTR,TH,PCO100, C ,,,,,NCC,,RUBYCON,,MULLARD	C	Y	Y

Ignore all columns except for the middle three – these contain all the information you require as explained below:

C.Des (Component Designator)

Every component on every Linn circuit board has an individual identification code known as a 'Component Designator' (C001, Q012, R345 etc). The designator shown in the table matches that printed on the circuit board beside each component.

These designators are coded according to type of component – at the start of each designator there is a letter and this describes the component type. The main types are shown below:

- C - Capacitor
- P - Connector
- Q - Transistor
- R - Resistor
- U - IC

The components are listed in alphabetical order by Component Designator

Part Number

Our internal part number for the component. Quote this part number if ordering the part from Linn.

We advise however that you try to source parts locally as most components are commonly available from any good electronic parts supplier much faster and cheaper than we can supply and also, not every part listed here can be ordered from Linn. If you have problems finding the part locally, we will do our best to help you, but we cannot guarantee availability of any part listed.

Description

All the technical details that you will require to order the part from your local or national electronic spares supplier. Includes (if applicable) the name(s) of our preferred manufacturer(s) for each part.



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY

OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
-----	-----	-----	-----	-----	-----	-----	-----
1.00000	ONES	R C001	CAP 035	4N7F,+2%,-2%,63V,PST,TH,CO400,,,,, C	N	Y	

** Warning - Part OBSOLETE on 09-JAN-1995							
1.00000	ONES	R C002	CAP 034	100UF,+20%,-20%,10V,TANT,TH, PCO200,,,,,,STC TAG,,THOMSON,, C	N	Y	
1.00000	ONES	R C003	CAP 003	22UF,+50%,-20%,50V,ELTR,TH,PCO100, C	N	Y	
,,,,,,NCC,,RUBYCON,,MULLARD							
1.00000	ONES	R C004	CAP 003	22UF,+50%,-20%,50V,ELTR,TH,PCO100, C	N	Y	
,,,,,,NCC,,RUBYCON,,MULLARD							
1.00000	ONES	R C005	CAP 099	1NF,+10%,-10%,63V,CERA,SM,CC0805,, C	N	Y	

** Warning - Part OBSOLETE on 27-APR-1989							
1.00000	ONES	R C006	CAP 039	68PF,+2%,-2%,160V,PST,TH,CO100,,,, C	N	Y	

1.00000	ONES	R C007	NO INFO	33UF,+20%,-20%,10V,TANT,TH,PCO200, C	N	Y	
NO LINN PART NUMBER EXISTS FOR THIS PART ,,,,,,STC TAG,,THOMSON							
1.00000	ONES	R C008	NO INFO	33UF,+10%,-10%,63V,PEST,TH,PCO200, C	N	Y	
NO LINN PART NUMBER EXISTS FOR THIS PART ,,,,,,STC TAG,,THOMSON							
1.00000	ONES	R C009	CAP 068	100NF,+10%,-10%,63V,PEST,TH,CO200, C	N	Y	

1.00000	ONES	R C010	CAP 020	100UF,+20%,-20%,63V,ELTR,TH, PCO200,,,,,,ECC,,RUBYCON,, C	N	Y	

** Warning - Part OBSOLETE on 29-OCT-1999							
1.00000	ONES	R C011	CAP 020	100UF,+20%,-20%,63V,ELTR,TH, PCO200,,,,,,ECC,,RUBYCON,, C	N	Y	

** Warning - Part OBSOLETE on 29-OCT-1999							
1.00000	ONES	R C012	CAP 003	22UF,+50%,-20%,50V,ELTR,TH,PCO100, C	N	Y	
,,,,,,NCC,,RUBYCON,,MULLARD							
1.00000	ONES	R C013	CAP 003	22UF,+50%,-20%,50V,ELTR,TH,PCO100, C	N	Y	
,,,,,,NCC,,RUBYCON,,MULLARD							
1.00000	ONES	R C014	CAP 022	6U8F,+10%,-10%,63V,ELTR,TH,PCO100, C	N	Y	

1.00000	ONES	R C015	CAP 022	6U8F,+10%,-10%,63V,ELTR,TH,PCO100, C	N	Y	

1.00000	ONES	R C016	CAP 085	10000UF,+20%,-20%,64V,ELTR,TH, PCO400,,,,,,BHC,,,, C	N	Y	
1.00000	ONES	R C017	CAP 085	10000UF,+20%,-20%,64V,ELTR,TH, PCO400,,,,,,BHC,,,, C	N	Y	
1.00000	ONES	R C018	CAP 037	470PF,+2%,-2%,160V,PST,TH,CO900,,, C	N	Y	

** Warning - Part OBSOLETE on 28-MAR-1990							
1.00000	ONES	R C019	CAP 038	220PF,+2%,-2%,160V,PST,TH,CO100,,, C	N	Y	



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY
OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
1.00000	ONES	R C020	CAP 033	22UF,+20%,-20%,10V,TANT,TH,PCO200, ,,,,,STC TAG,,THOMSON,,	C	N	Y
1.00000	ONES	R C021	CAP 250	330NF,+5%,-5%,250V,PPR,TH,CO900,, ,,,,,EVOX,,ARCOTRONIC,,	C	N	Y
1.00000	ONES	R C022	CAP 020	100UF,+20%,-20%,63V,ELTR,TH, PCO200,,,,,,ECC,,RUBYCON,,	C	N	Y
** Warning - Part OBSOLETE on 29-OCT-1999							
1.00000	ONES	R C023	CAP 020	100UF,+20%,-20%,63V,ELTR,TH, PCO200,,,,,,ECC,,RUBYCON,,	C	N	Y
** Warning - Part OBSOLETE on 29-OCT-1999							
1.00000	ONES	R D001	MISS 009	4.7V ZENER OBSOLETE PART	C	N	Y
** Warning - Part OBSOLETE on 29-MAR-1990							
1.00000	ONES	R D002	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D003	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D004	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D005	MISS 009	4.7V ZENER OBSOLETE PART	C	N	Y
** Warning - Part OBSOLETE on 29-MAR-1990							
1.00000	ONES	R D006	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D007	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D008	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y
1.00000	ONES	R D009	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y
1.00000	ONES	R D010	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y
1.00000	ONES	R D011	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y
1.00000	ONES	R D012	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y
1.00000	ONES	R D013	MISS 010	TYPE FUNCTION GENERAL INFO MR752 6A 200V RECTIFIER	C	N	Y



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY
OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
1.00000	ONES	R D014	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D015	MISS 001	TYPE FUNCTION CASE 1N4148 DIODE	C	N	Y
1.00000	ONES	R D016	MISS 014	POWER AMP MAINS INDICATOR LED	C	N	Y
** Warning - Part OBSOLETE on 07-SEP-1992							
1.00000	ONES	R Q001	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q002	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q003	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q004	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q005	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q006	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q007	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q008	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q009	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q010	TRAN 007	BD140,PNP,80V,1.5A,TO126,140, MOTOR,	C	N	Y
** Warning - Part OBSOLETE on 30-OCT-1996							
1.00000	ONES	R Q011	TRAN 007	BD140,PNP,80V,1.5A,TO126,140, MOTOR,	C	N	Y
** Warning - Part OBSOLETE on 30-OCT-1996							
1.00000	ONES	R Q012	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q013	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q014	TRAN 006	BD139,NPN,80V,1.5A,TO126,139, MOTOR,	C	N	Y
** Warning - Part OBSOLETE on 30-OCT-1996							



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY

OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
1.00000	ONES	R Q015	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q016	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q017	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q018	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q019	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q020	TRAN 017	2SA1386,PNP,160V,15A,MT100,1386, SANKEN,	C	N	Y
1.00000	ONES	R Q021	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q022	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q023	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q024	TRAN 018	2SC3519,NPN,160V,15A,MT100,3519, SANKEN,	C	N	Y
1.00000	ONES	R Q025	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q026	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q027	TRAN 017	2SA1386,PNP,160V,15A,MT100,1386, SANKEN,	C	N	Y
1.00000	ONES	R Q028	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q029	TRAN 002	ZTX753,PNP,100V,2A,ELINE,753, ZETEX,	C	N	Y
1.00000	ONES	R Q030	TRAN 010	TYPE POLARITY MPS A93 PNP OBSOLETE	C	N	Y
** Warning - Part OBSOLETE on 13-MAR-1990							
1.00000	ONES	R Q031	TRAN 018	2SC3519,NPN,160V,15A,MT100,3519, SANKEN,	C	N	Y



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY

OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
1.00000	ONES	R Q032	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q033	TRAN 001	ZTX653,NPN,100V,2A,ELINE,653, ZETEX,	C	N	Y
1.00000	ONES	R Q034	TRAN 009	TYPE POLARITY MPS A43 NPN OBSOLETE	C	N	Y
** Warning - Part OBSOLETE on 13-MAR-1990							
1.00000	ONES	R R001	RES 029	1K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R002	RES 017	4K7,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R003	RES 021	100R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R004	RES 078	4K3,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R005	RES 017	4K7,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R006	RES 030	120R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R007	RES 030	120R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R008	RES 030	120R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R009	RES 001	220R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R010	RES 001	220R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R011	RES 078	4K3,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R012	RES 022	820R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R013	RES 022	820R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R014	RES 023	910R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY
OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
-----	-----	-----	-----	-----	-----	-----	-----
1.00000	ONES	R R015	RES 041	5K6,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R016	RES 023	910R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R017	RES 041	5K6,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R018	RES 042	620R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R019	RES 042	620R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R020	RES 043	180R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R021	RES 035	1K1,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R022	RES 035	1K1,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R023	RES 043	180R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R024	RES 082	4R7,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R025	RES 133	4R7,5%,WWC,XX,4W,999V,999ppm,, ,	C	N	Y
1.00000	ONES	R R026	RES 133	4R7,5%,WWC,XX,4W,999V,999ppm,, ,	C	N	Y
1.00000	ONES	R R027	RES 048	12R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R028	RES 025	22K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R029	RES 047	0R47,10%,WWE,W21,2.5W,100V,75ppm,, ,	C	N	Y
1.00000	ONES	R R030	RES 009	27R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R031	RES 002	150R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y



Assembly Number: PCAS 003

POWER AMPLIFIER PCB ASSEMBLY
OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
-----	-----	-----	-----	-----	-----	-----	-----
1.00000	ONES	R R032	RES 017	4K7,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R033	NO INFO	20K,1%,MF,2.5W, 200V,50ppm,, ,	C	N	Y
NOTE-ORIGINAL PART FOR R033 WAS RES 045 - HAD INSUFFICIENT POWER RATING - USE MINIMUM 1WATT PART							
1.00000	ONES	R R034	RES 033	6K2,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R035	RES 013	180K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R036	RES 050	0R1,10%,WWE,W21,2.5W,100V,75ppm,, ,	C	N	Y
1.00000	ONES	R R037	RES 038	2K2,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R039	RES 058	33K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R040	RES 017	4K7,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R041	RES 002	150R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R042	RES 009	27R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R043	RES 033	6K2,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R044	RES 013	180K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R045	RES 038	2K2,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R046	RES 050	0R1,10%,WWE,W21,2.5W,100V,75ppm,, ,	C	N	Y
1.00000	ONES	R R048	RES 058	33K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R049	NO INFO	2.4K,10%,WWE,W21,2.5W,100V,75ppm,, ,	C	N	Y
NOTE - ORIGINAL PART WAS 0.25W - HAD INSUFFICIENT POWER RATING. USE MINIMUM 2.5W PART							
1.00000	ONES	R R050	RES 078	4K3,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R051	RES 063	18R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y



Assembly Number: PCAS 003

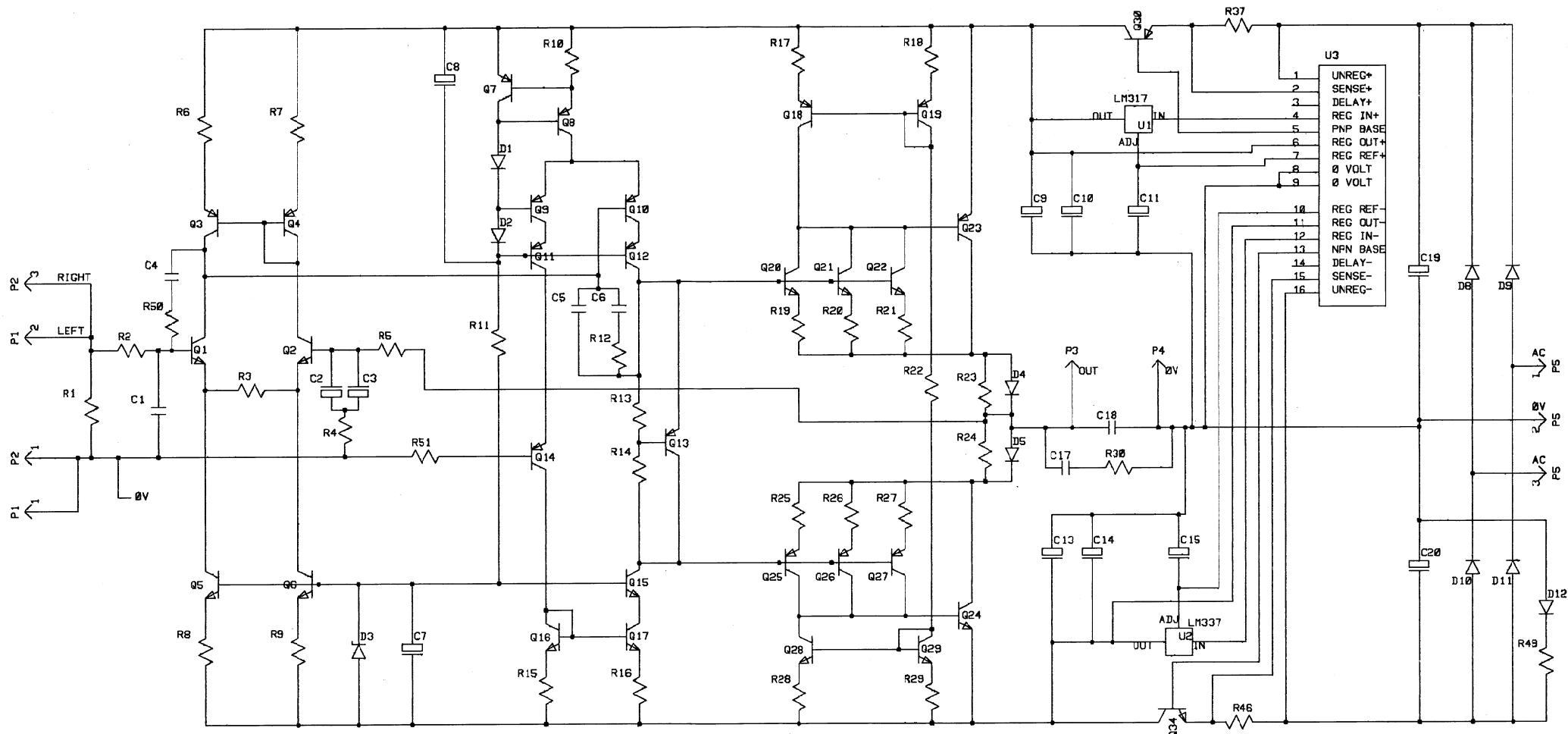
POWER AMPLIFIER PCB ASSEMBLY
OBSOLETE PART

Units: ONES

BOM Type: C

Quantity	Units	T C.Des	Part Number	Description	Type	Kit	Cost
1.00000	ONES	R R052	RES 048	12R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R053	RES 009	27R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R055	RES 009	27R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R056	RES 048	12R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R057	RES 009	27R,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R R059	RES 018	15K,1%,MF,1/4W,0.25W,200V,50ppm,, ,	C	N	Y
1.00000	ONES	R U001	IC 005	LM317T,VOLTAGE REGULATOR,TO220, 317T,NATSEM,	C	N	Y
1.00000	ONES	R U002	IC 006	LM337T,VOLTAGE REGULATOR,TO220, 337T,NATSEM,THOM	C	N	Y





— UP TO R51 — MISSING REFS
 — UPTO C20 — NONE
 — UP TO D12
 — UP TO Q37
 — UP TO P5

CONTRACT		FIRM NAME		
DR	/ /	PCAS 020/L1R		
CHK	/ /			
ENG	/ /			
APPD	/ /			
NEXT HIGHER ASSY.		SIZE	FSCM NO.	DWG NO.
		D	-	-
09:08:44		8-Oct-83 PCAS020		SHEET X